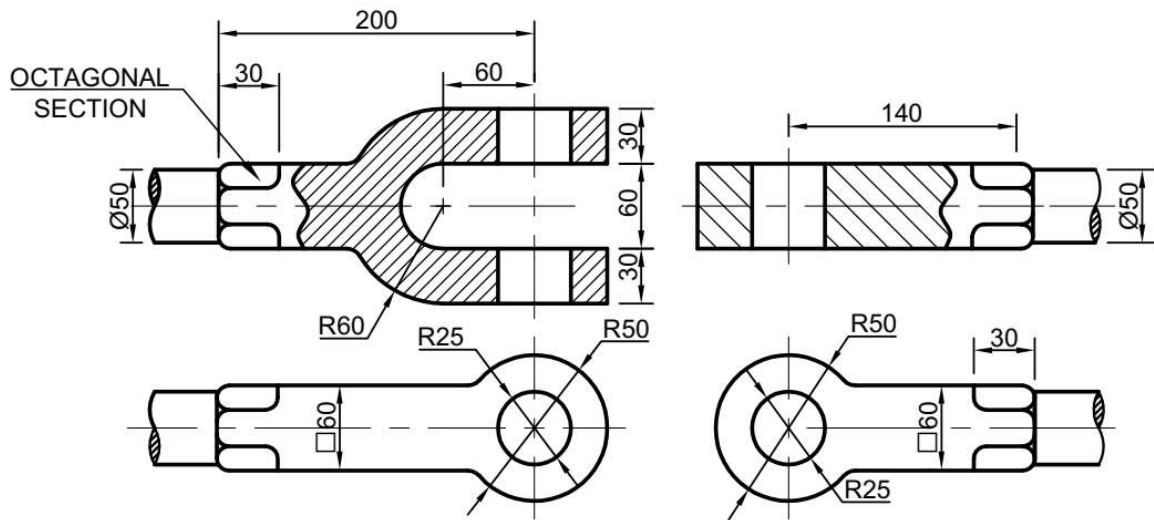
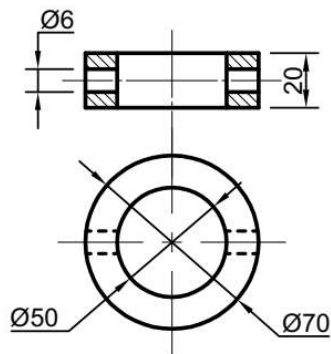


## Ex. Knuckle Joint



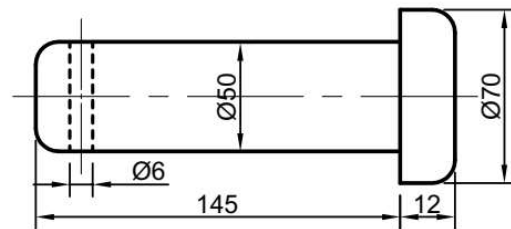
1- FORK END;  
MATL. FORGED STEEL QTY. 1

2- EYE END;  
MATL. FORGED STEEL QTY. 1



3 - COLLAR  
MATL. MS. QTY. 1

5 - PIN Ø6, LENGTH 70, MATL. MILD ST. QTY. 1



4- PIN  
MATL. M.ST. QTY. 1

NOTE: ALL FILLET WITH RADIUS OF R5

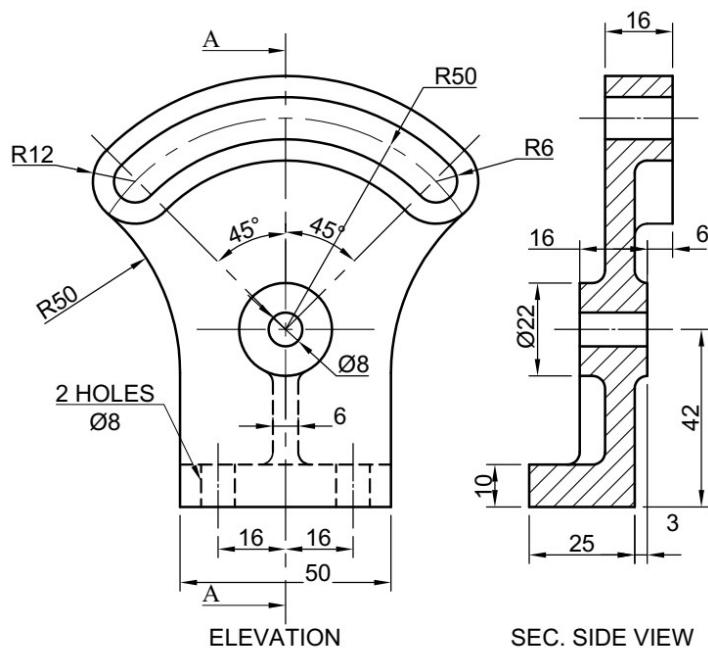
1. JIG BODY; ST.37, QTY 1

2. SLEEVE; BRONZE, QTY 1

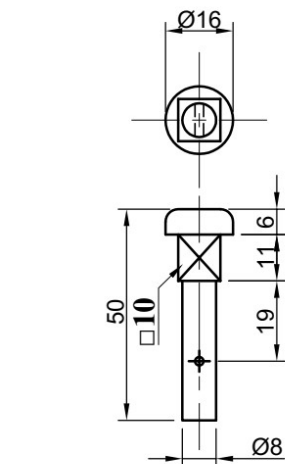
3. V-BLOCK; ST.50, LENGTH 88, QTY 1

1. JIG BODY; ST.37, QTY 1

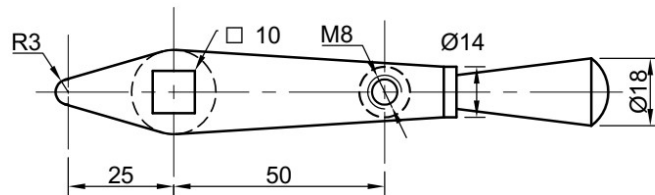
Ex. Control handle



1. BODY; C.I.; NO. OFF. 1



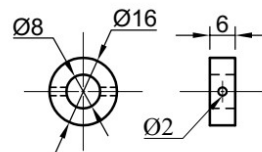
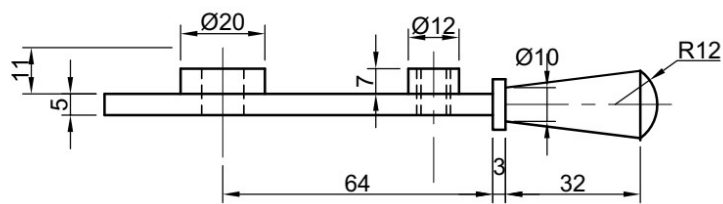
3. PIVOT STUD; ST37;  
NO. OFF. 1



2. HANDLE; C.I.; NO. OFF. 1

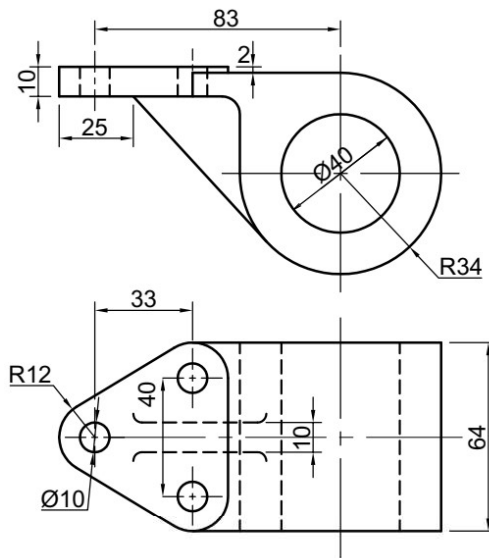


5. PIN; ST;  
NO. OFF. 1

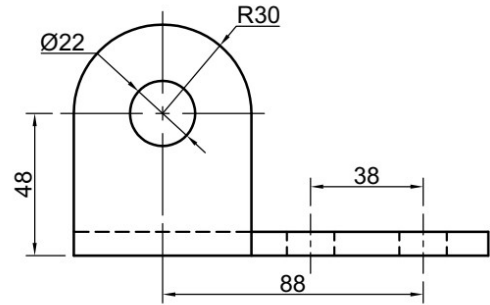


4. COLLAR; ST;  
NO. OFF. 1

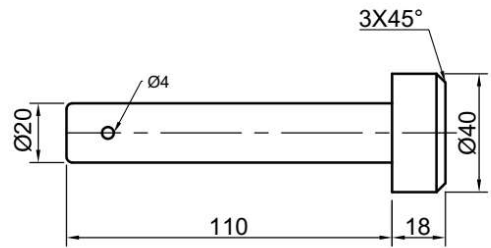
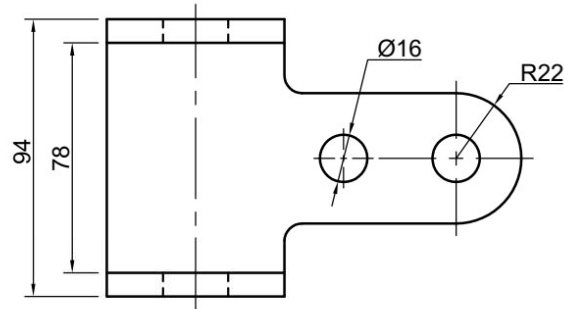
# Ex. Hing



2 - HINGE JAW, MATL. ST37. QTY. 1

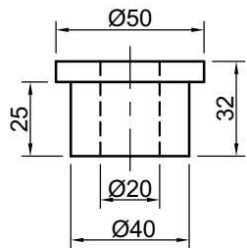


1 - HINGE BODY, MATL. ST37. QTY. 1



3 - PIN, MATL. ST37. QTY. 1

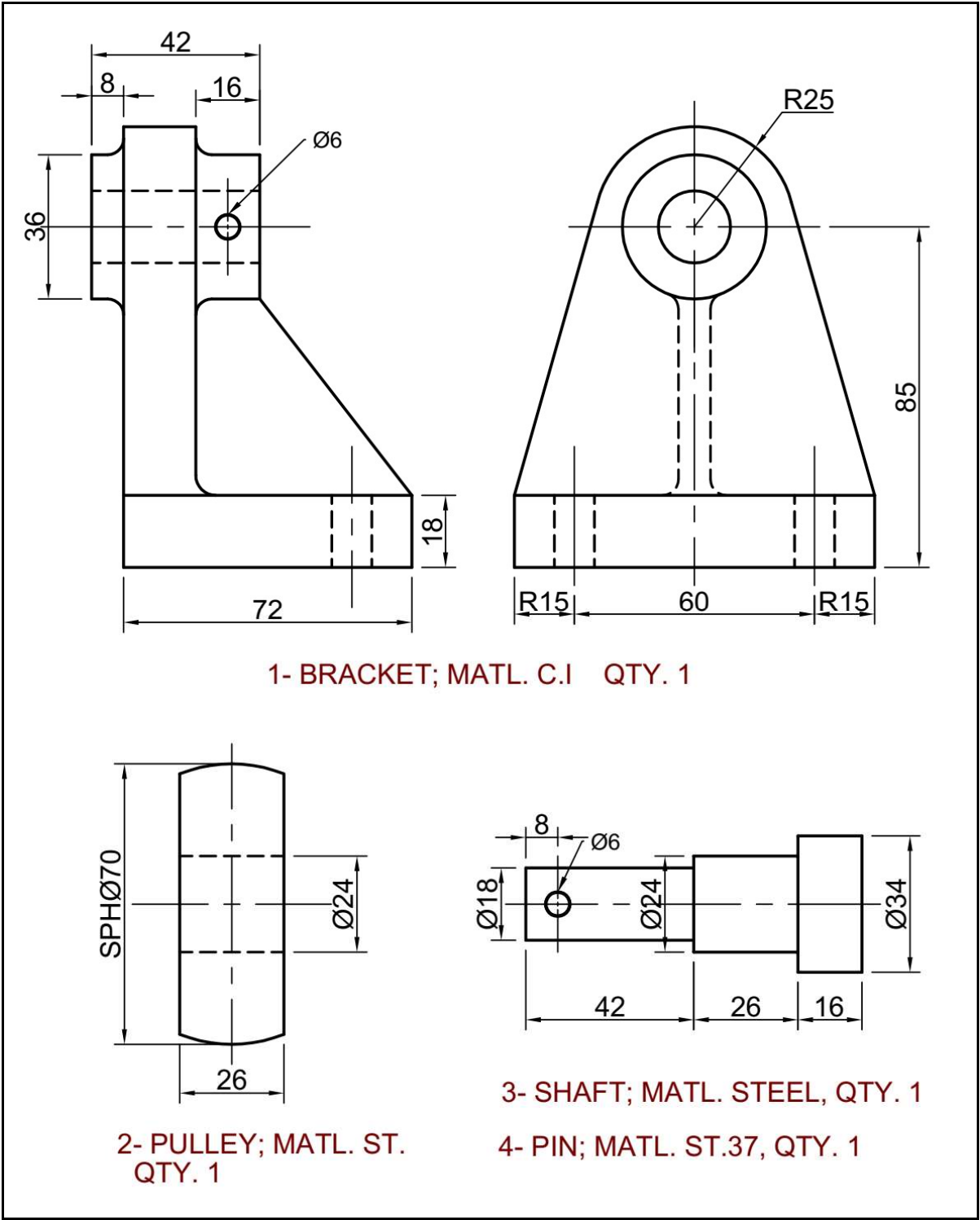
5 - PIN Ø4, LENGTH 30,  
MATL. ST37. QTY. 1



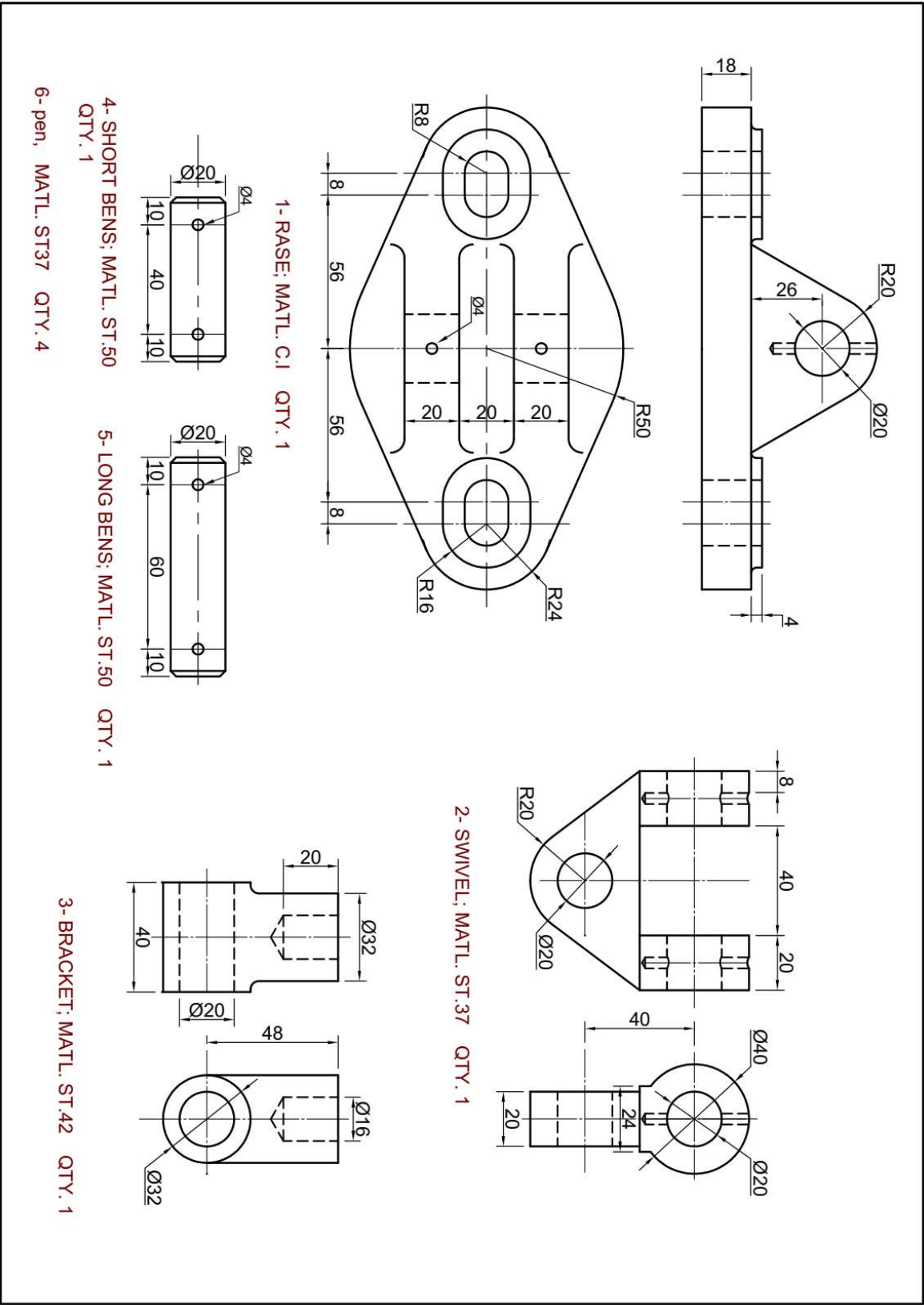
4 - SLEEVE,  
MATL. COPPER. QTY. 2

NOTE: All Fillet with Radii R5

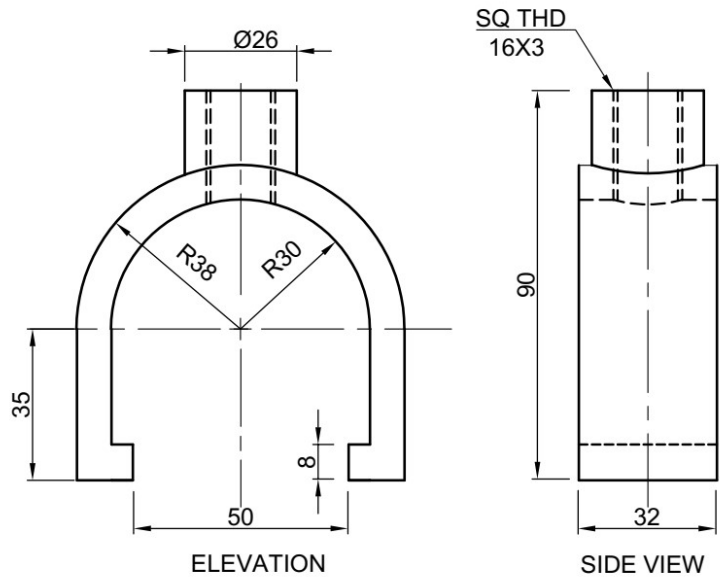
Ex. Pulley Bracket



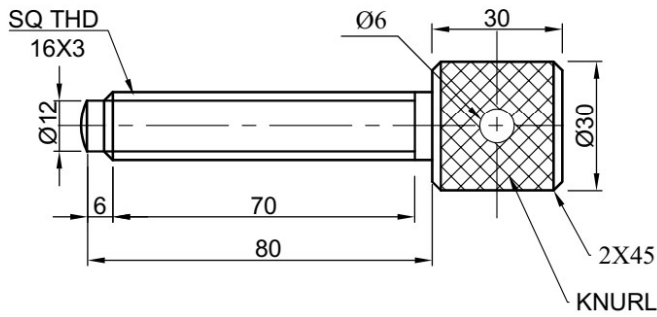
Ex. Swivel Arm



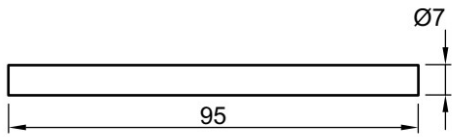
Ex. Clamp with V-Block



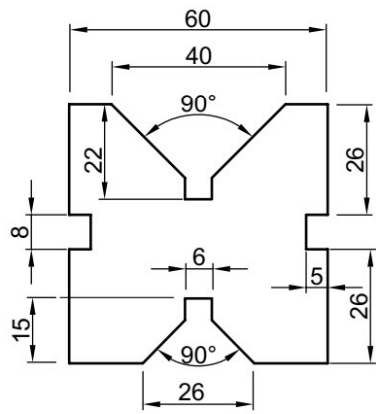
① BODY, St.37, QTY 1



③ SPINDLE, ST.42, QTY 1

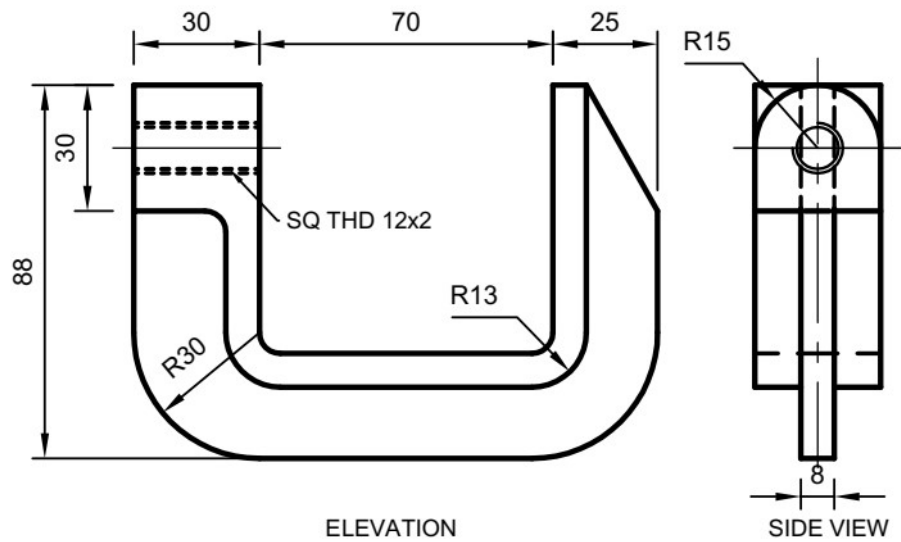


④ HANDLE, MILD ST. QTY 1

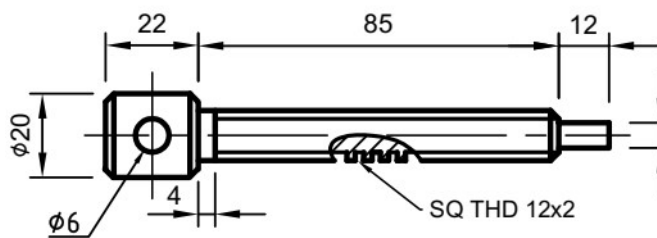


② V-BLOCK, St.50, QTY. 1

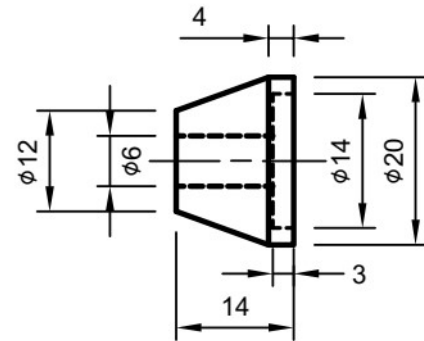
# Ex. C-Clamp



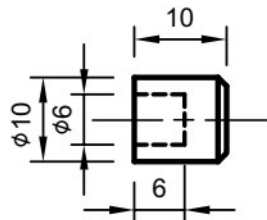
① CLAMP JAW, M.S, QTY: 1



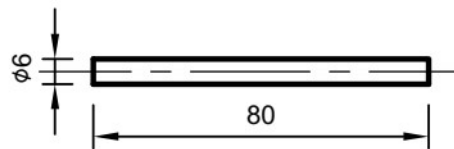
② SPINDLE, M.S, QTY: 1



③ SPINDLE CAP, M.S, QTY: 1



④ HANDLE CAP, M.S, QTY: 2

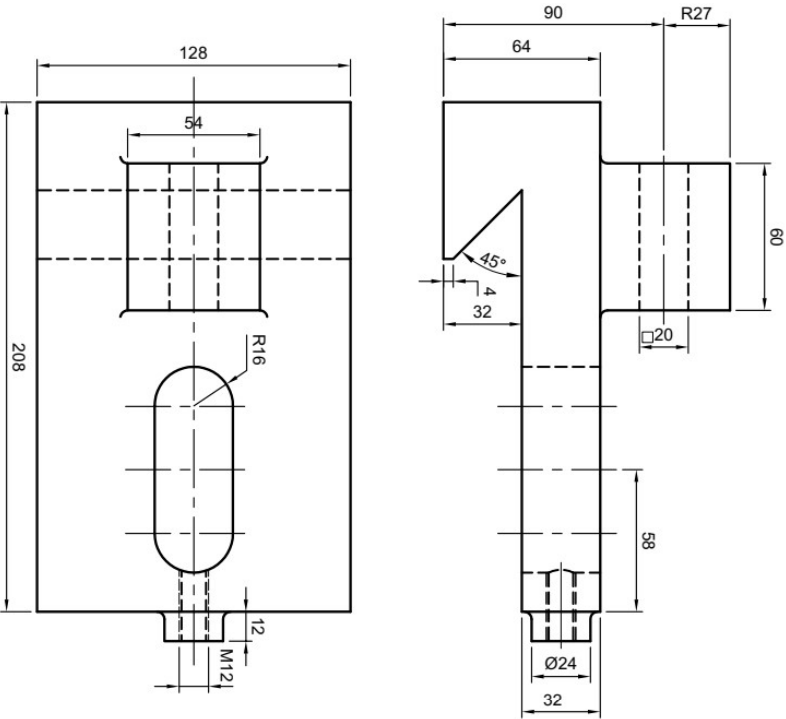


⑤ HANDLE, M.S, QTY: 1

ALL NON-SPECIFIED FILLET ARE 5 mm RADIUS  
ASSUME ANY MISSED DIMENSIONS

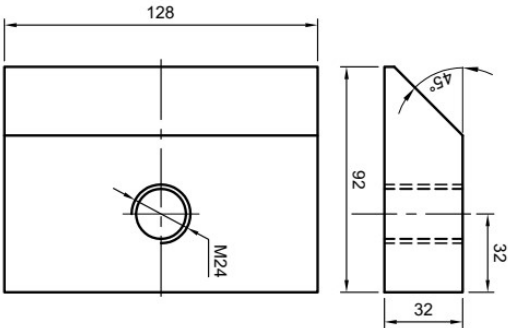


Ex. Clamp 2

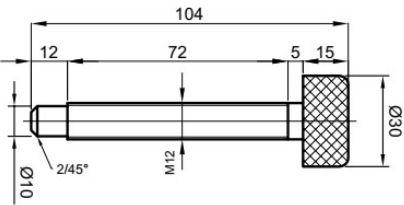


1. BASE, C.I, QTY.1

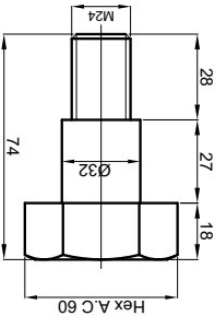
ALL NON-SPECIFIED FILLET ARE 5 mm RADIUS  
ASSUME ANY MISSED DIMENSIONS



2. DOVETAIL BLOCK,  
C.I, QTY.1

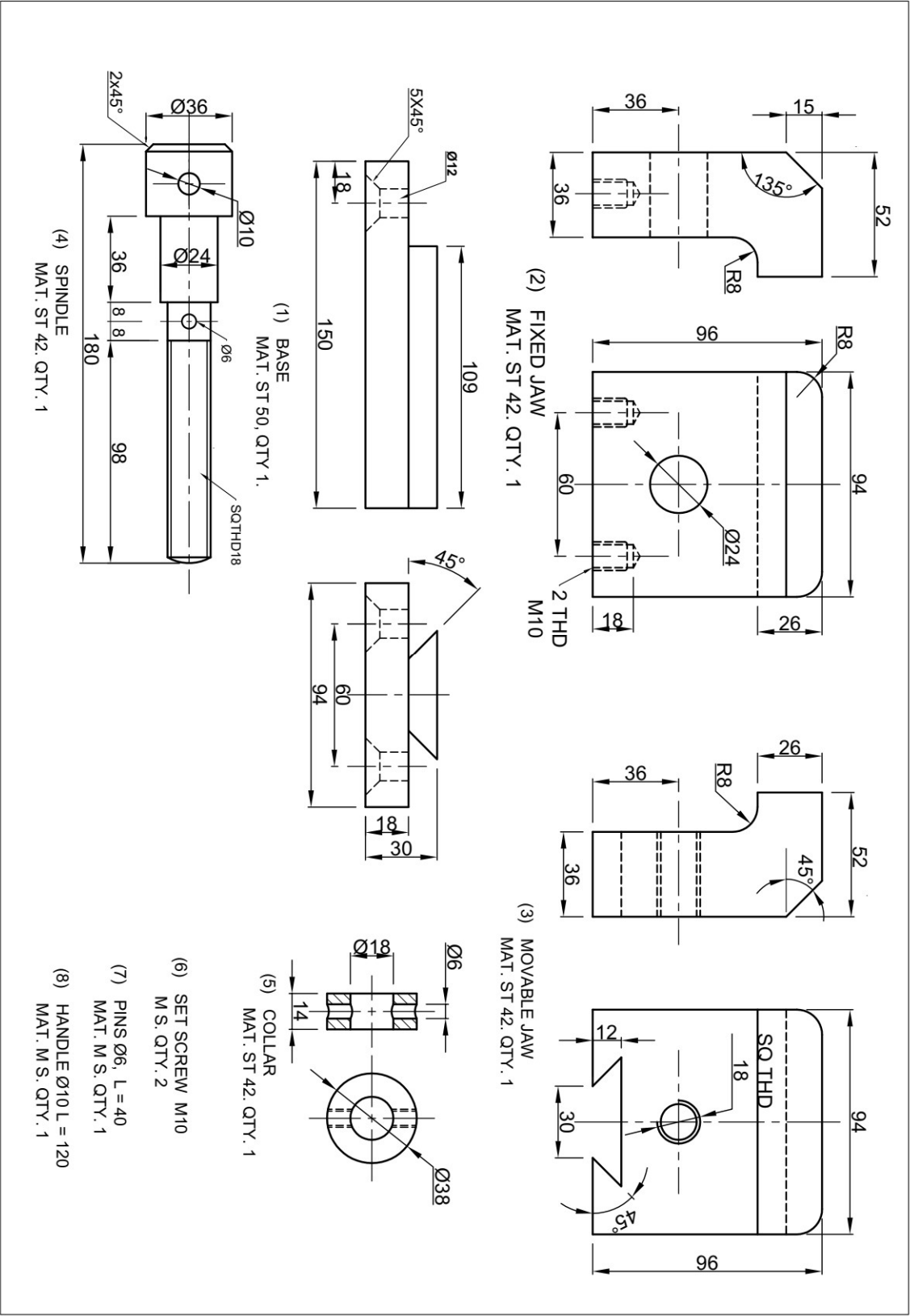


3. ADJUSTING SCREW,  
ST.37 QTY. 1

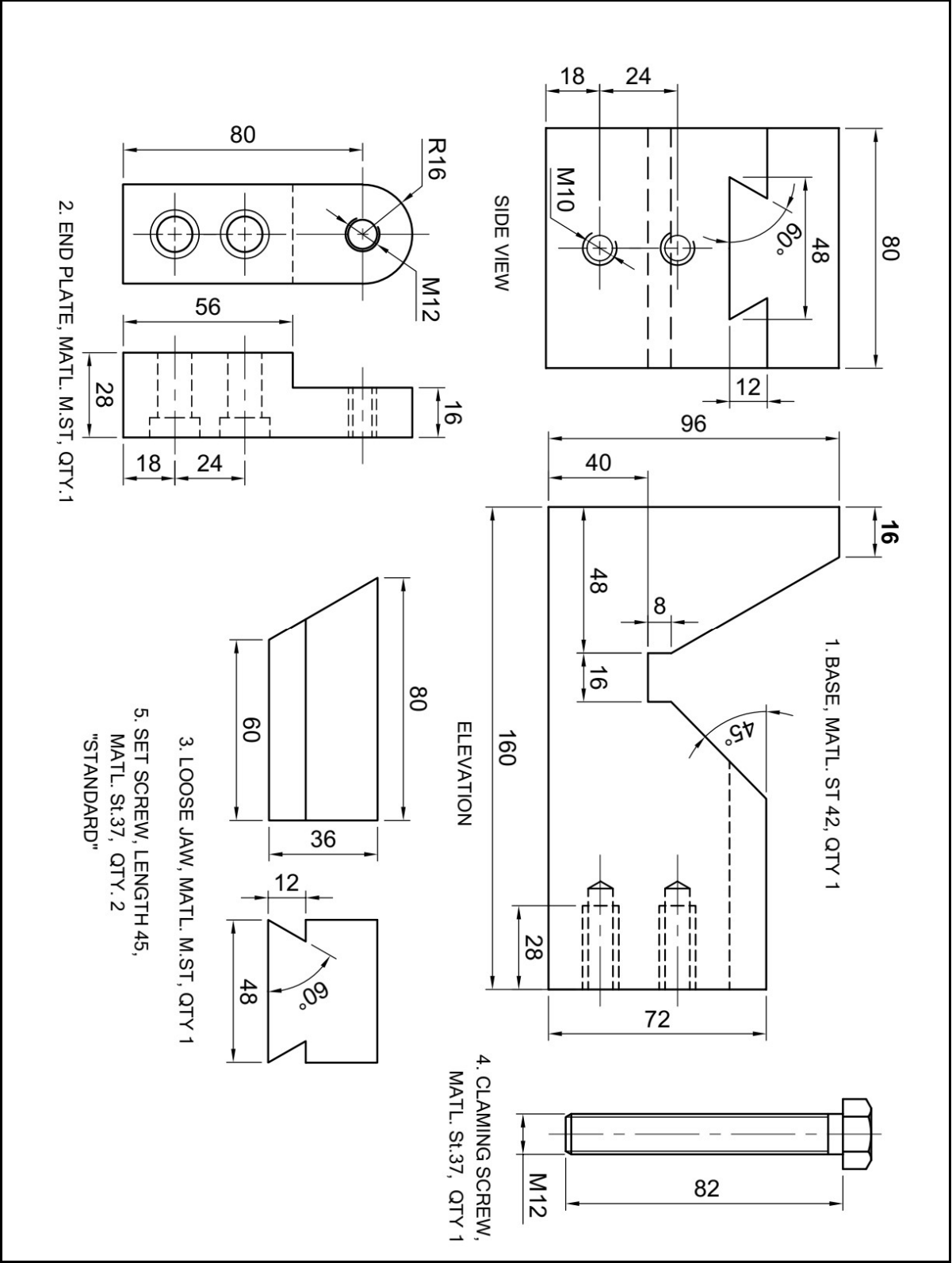


4. CLAMP SCREW, ST.37, QTY. 1  
5. WASHER OUTER DIA. Ø60  
INTERNAL DIA. Ø32, THK. 6  
ST.37, QTY. 1

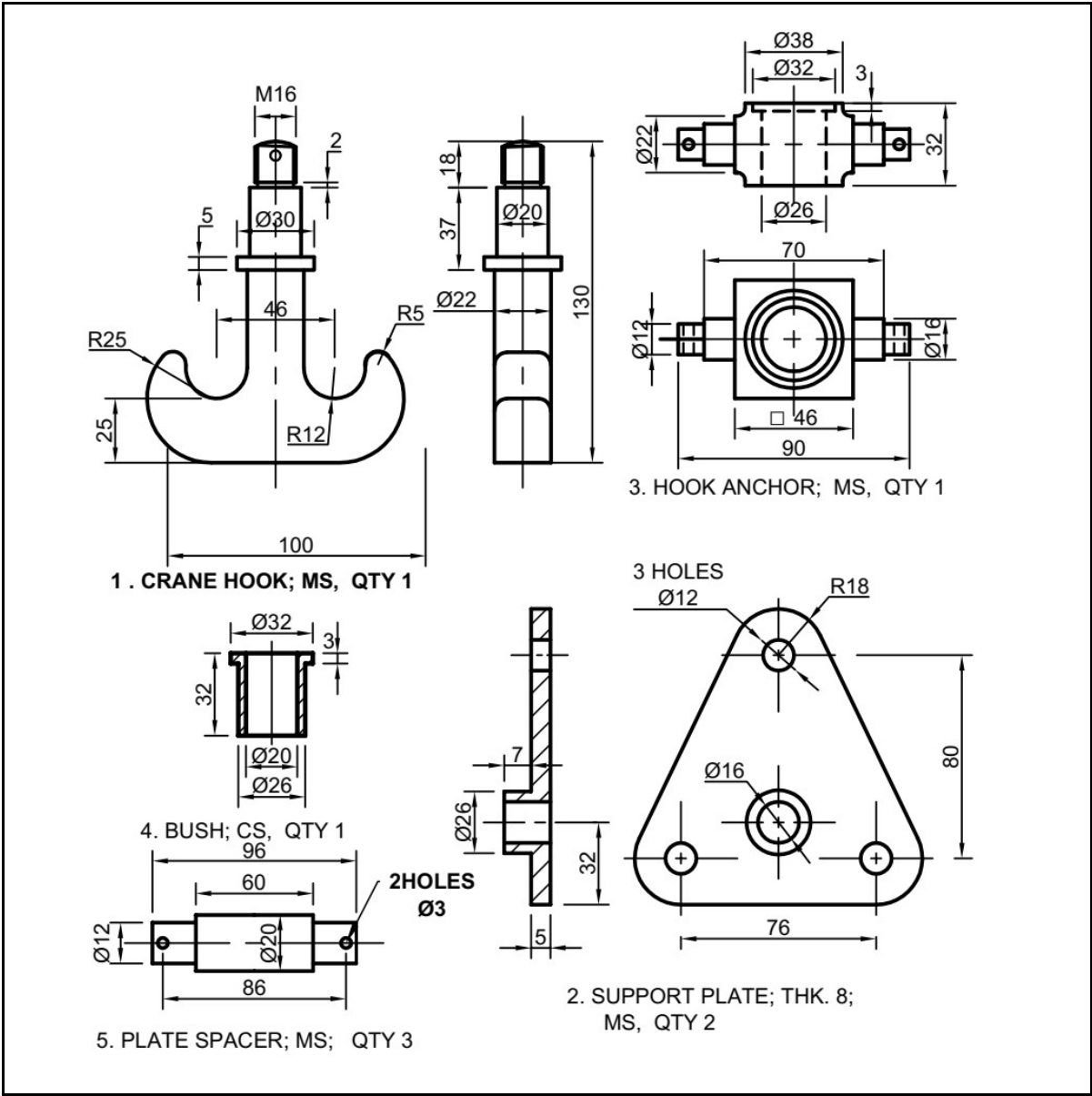
Ex. Clamp -3



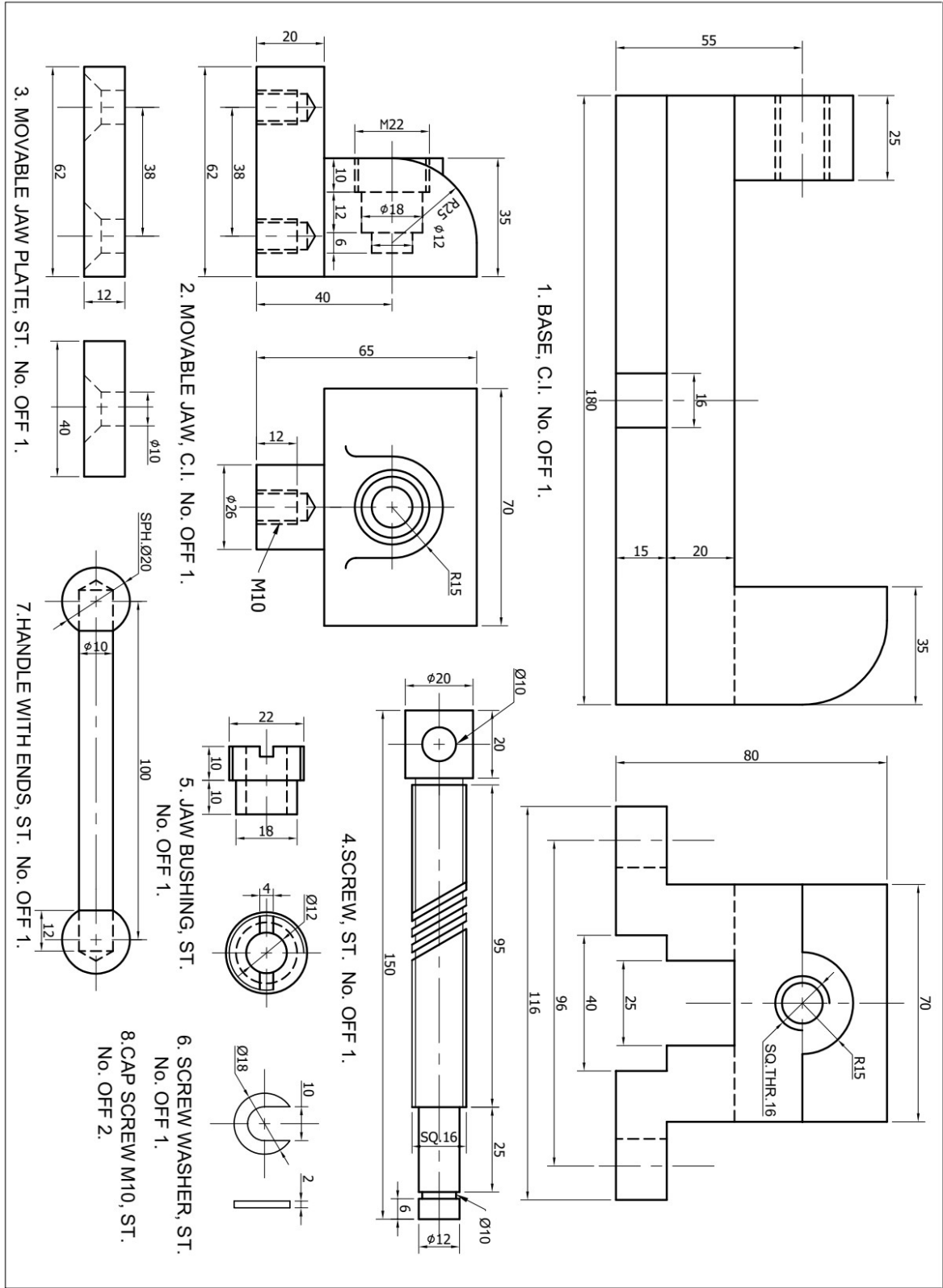
Ex. Clamping Device



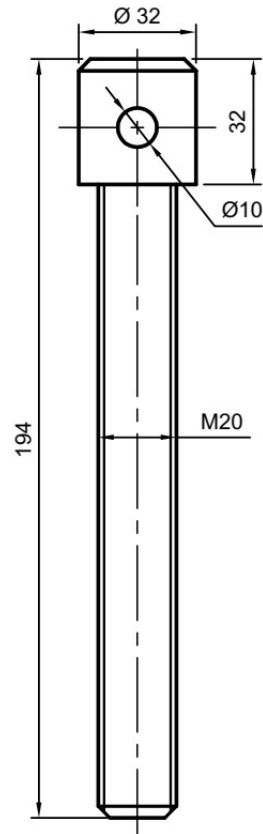
Ex. Crane Hook



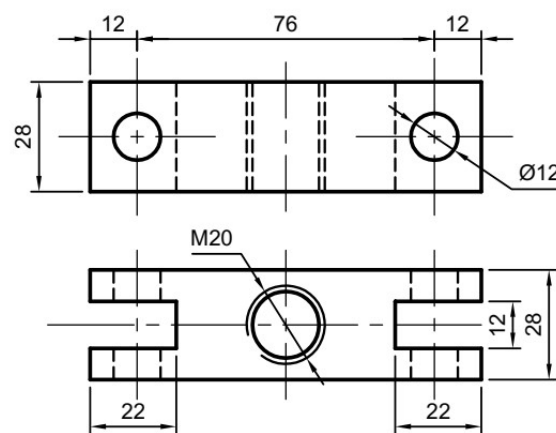
Ex. Drill Press-Vice



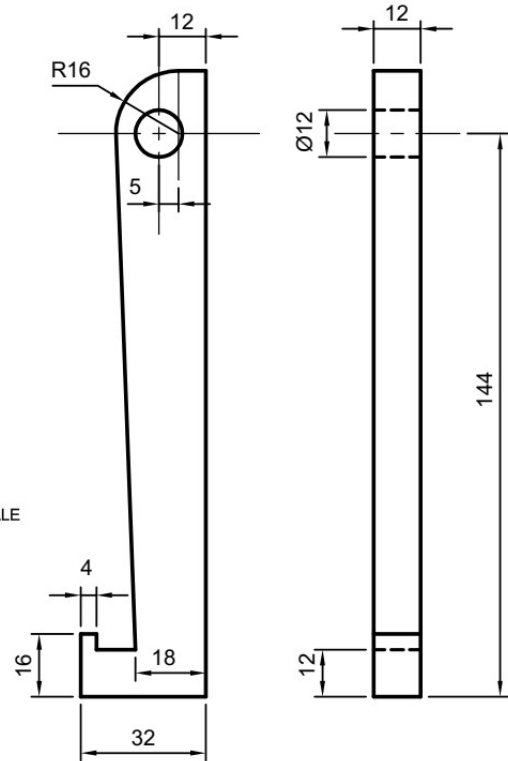
Ex. Ejecting Clamp



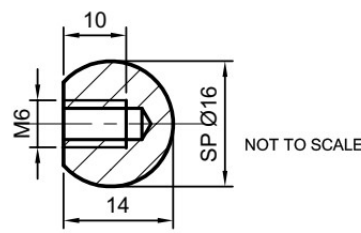
3. SPINDLE, St.42, QTY 1



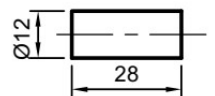
1. HOLDER, St.37, QTY 1



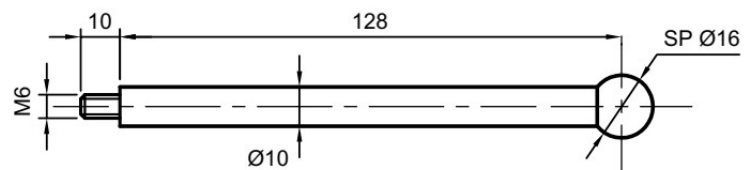
2. LEVER, St.37, QTY 2



4. HANDLE END, St.37, QTY 1

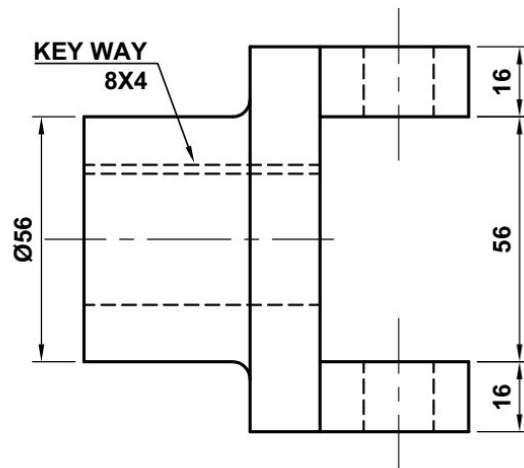


5. PIN, St.42, QTY 2



6. HANDLE, St.37, QTY 1

Ex. Hook's coupling

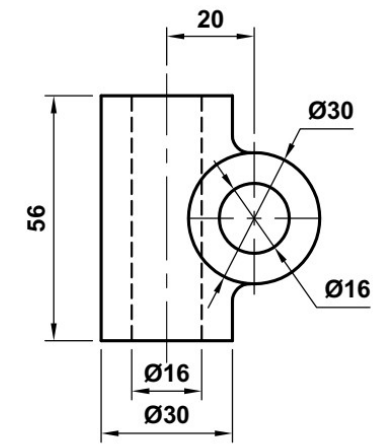


1. FORK; F.ST.37, QTY 2

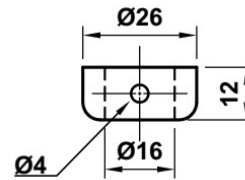
5. PINS, Ø4; ST.37, QTY 2

6. SHAFT, ST.37, QTY 2

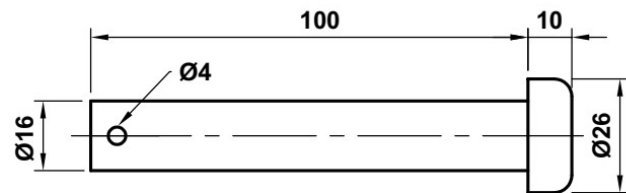
7. KEY 8X8, ST.37, QTY 2



2. CENTER BLOCK;  
F.ST.37, QTY 1



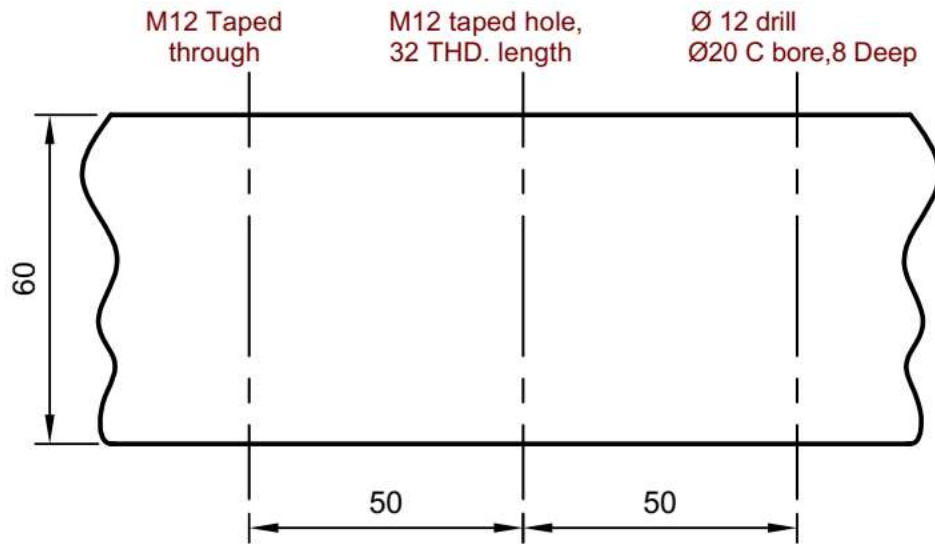
3. COLLAR; ST.37, QTY 2



4. PIN; M.ST.37, QTY 2

### Ex. Threaded Fasteners-1

Make a drawing of the holes with the given specifications in the following figure.  
Draw the elevation as a broken-out section, and plan.



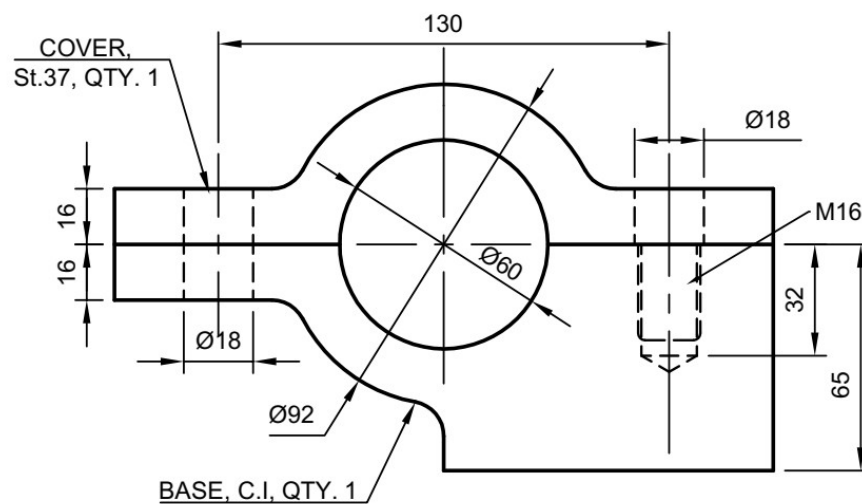
### Ex. Threaded Fasteners-2

Two machine parts are to be fastened together by a HEX. HD. bolt M16, a stud M16.

with a plain washers and HEX. HD. single face nuts. Draw the given view as assembled

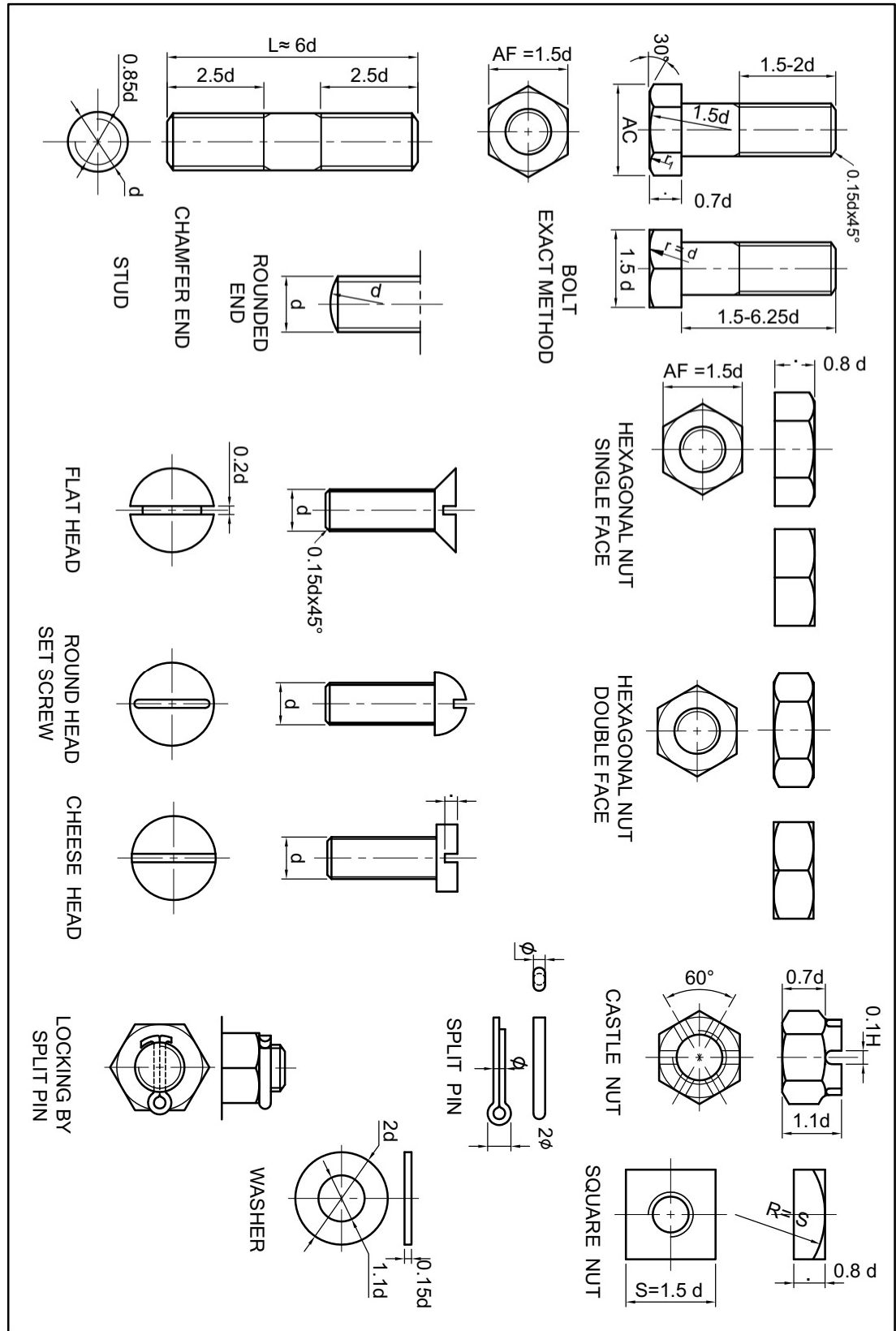
section, Bolt, stud, washers, and nuts, are with the standard dimensions.

Balloons number, parts list, main dimensions, and title block are essentially required.

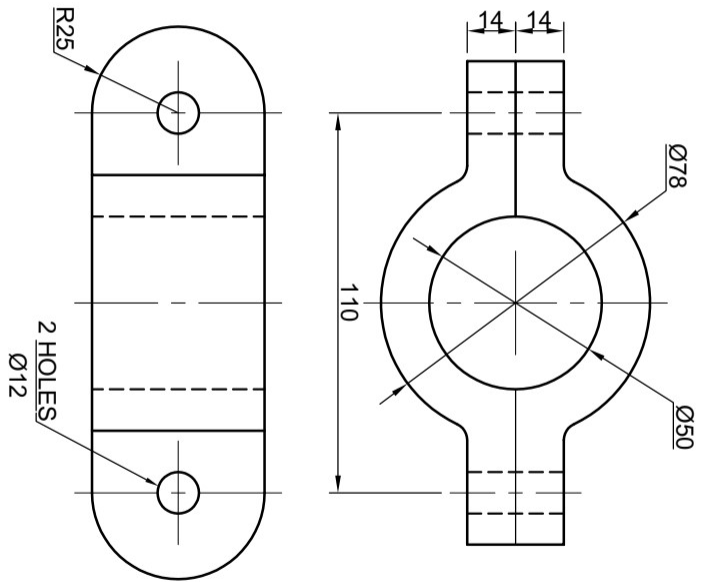
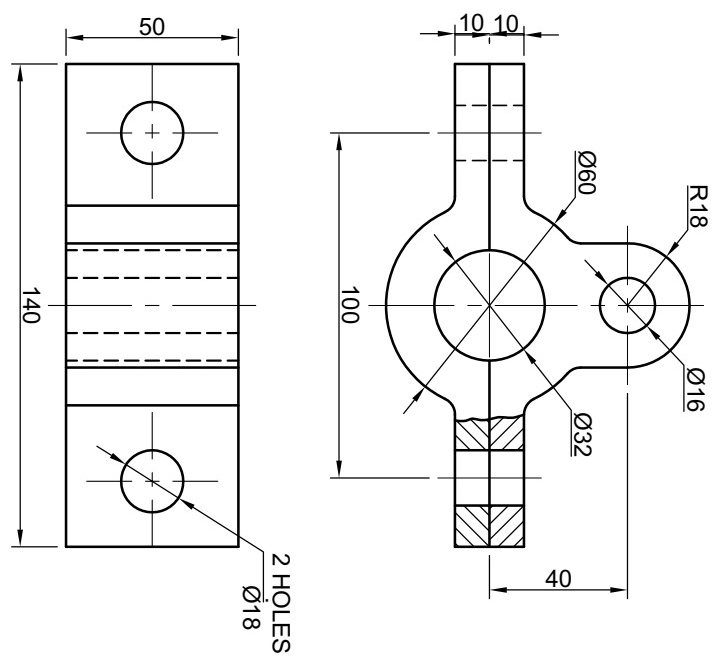




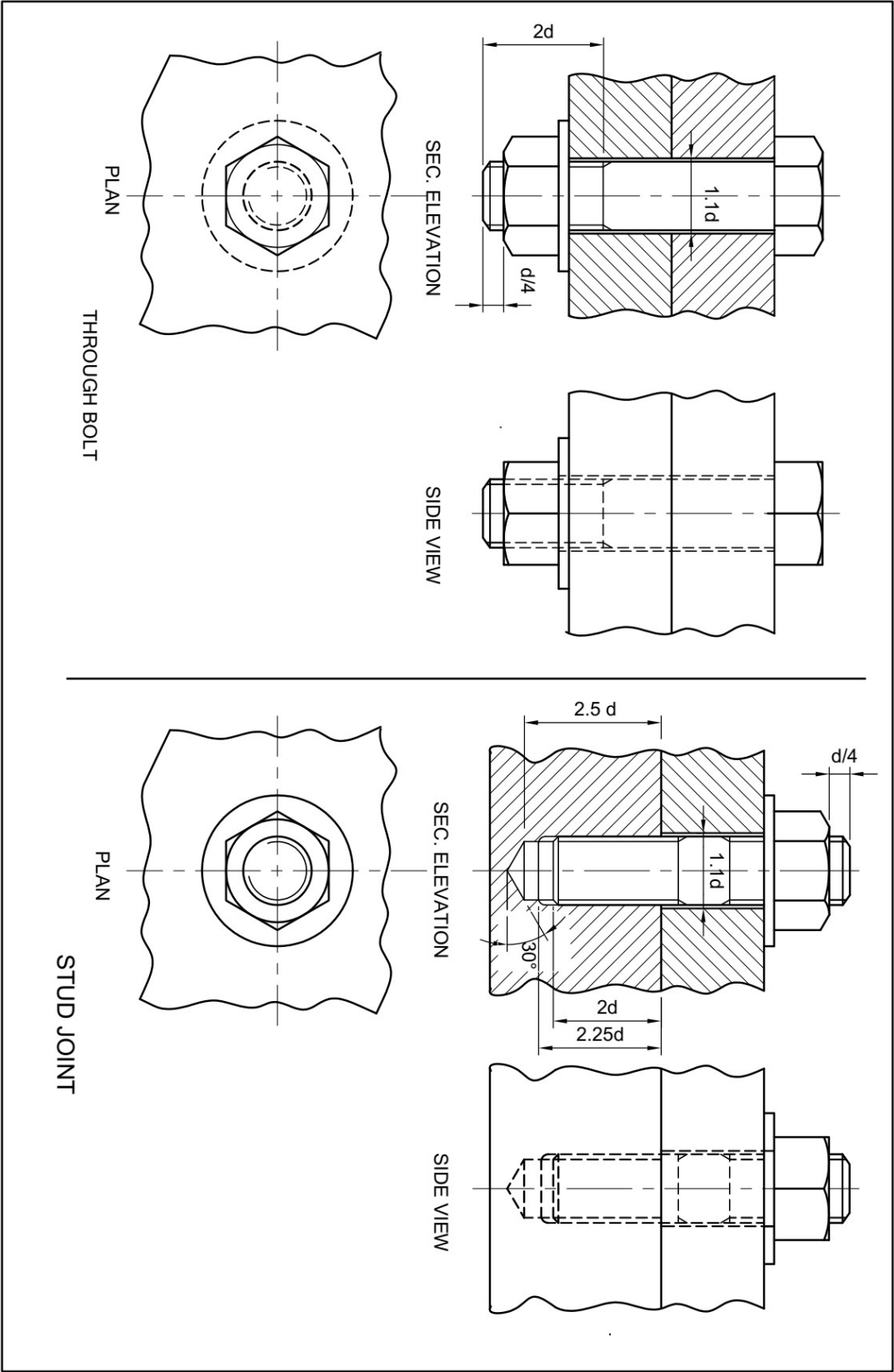
Ex. Threaded Fasteners-3



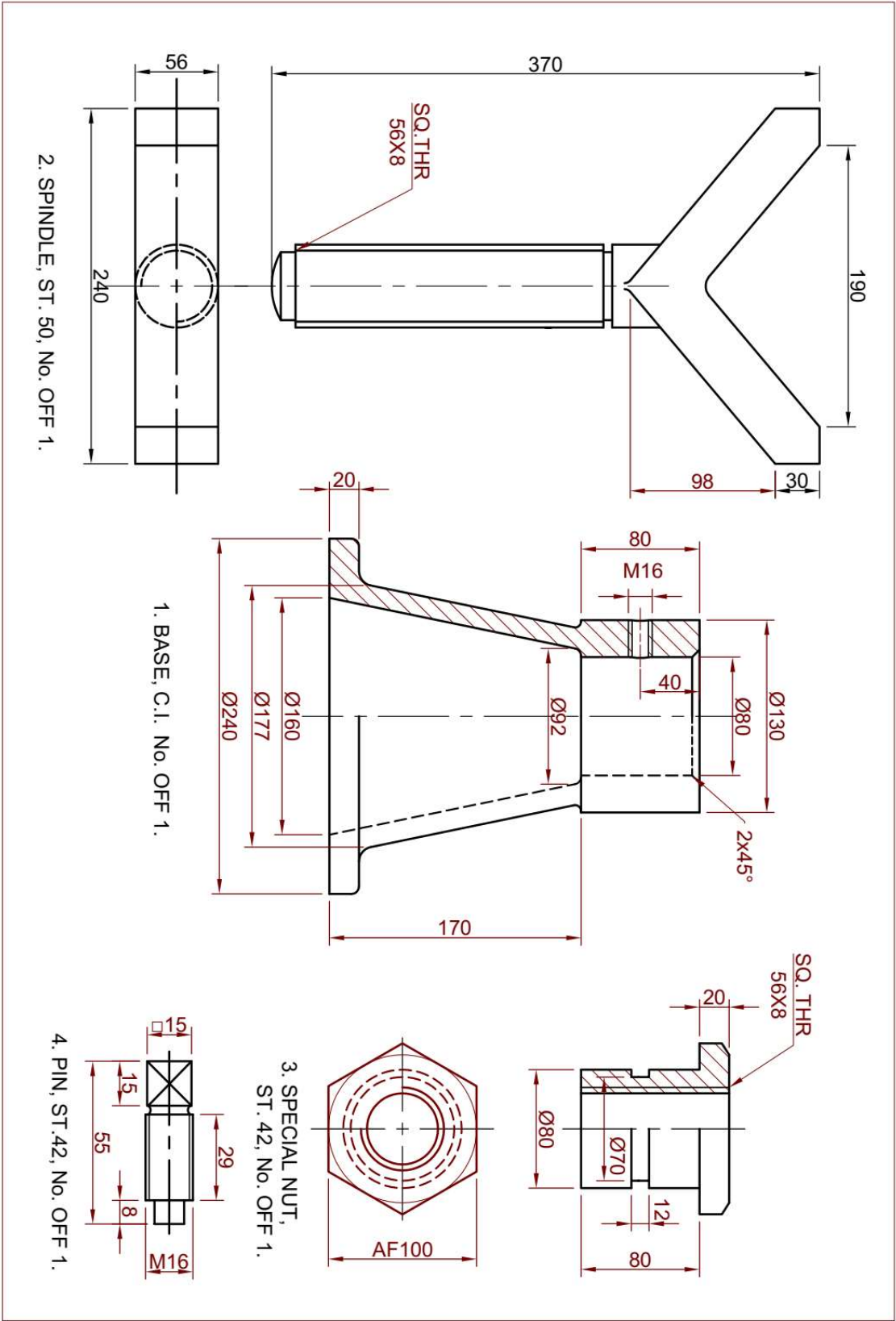
Ex. Threaded Fasteners-4



Ex. Threaded Fasteners-5



Ex. Screw Jack -3



1. BODY, C.I., No. OFF 1.

2. SPINDLE, ST 50, No. OFF 1.

3. SPECIAL NUT, ST 50, No. OFF 1.

4. CAP, ST 50, No. OFF 1.

5. COLLAR, ST 37, No. OFF 1.

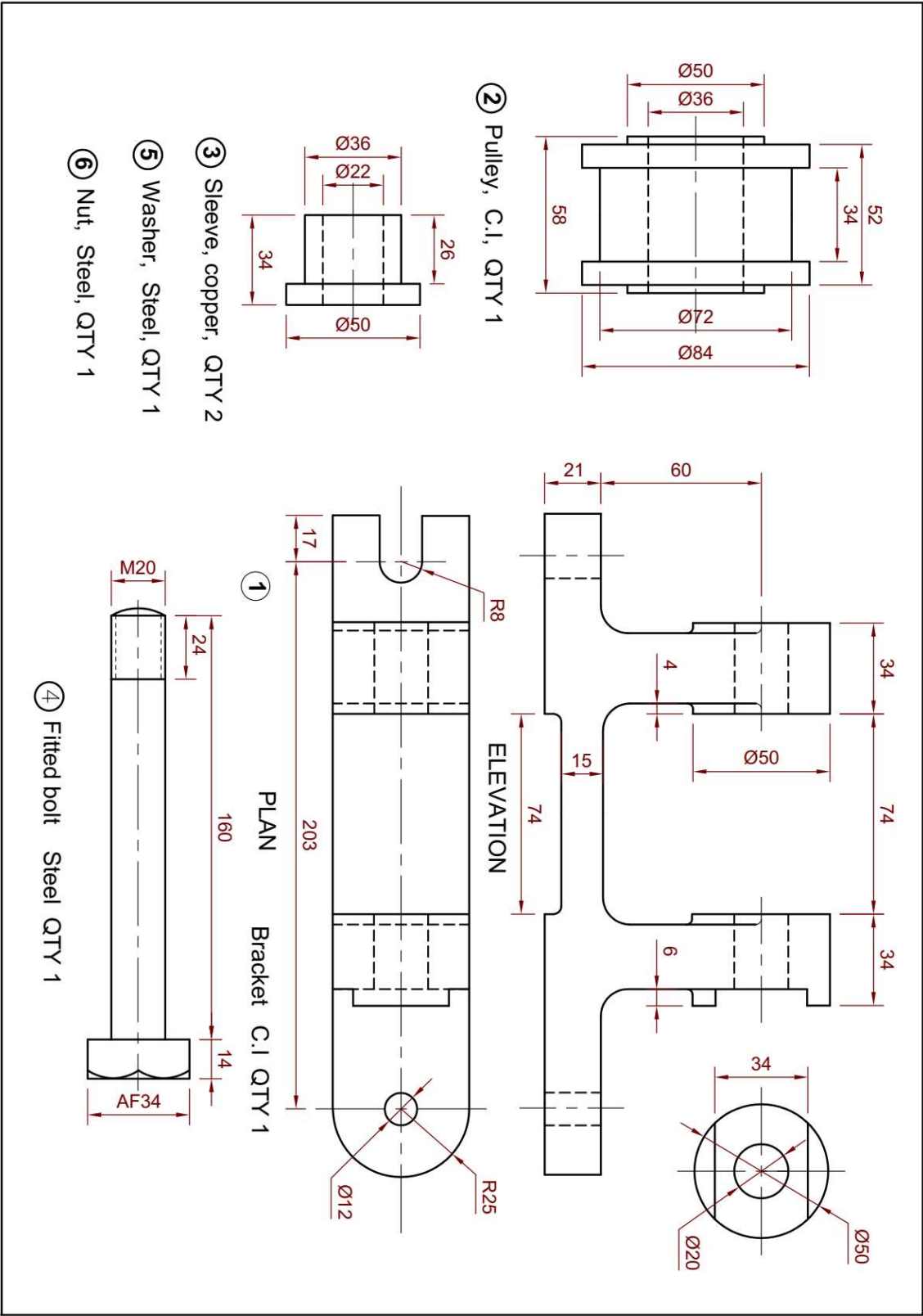
6. ROUNDED SET SCREW, ST 42, No. OFF 2.

7. POINTED SCREW, ST 42, No. OFF 2.

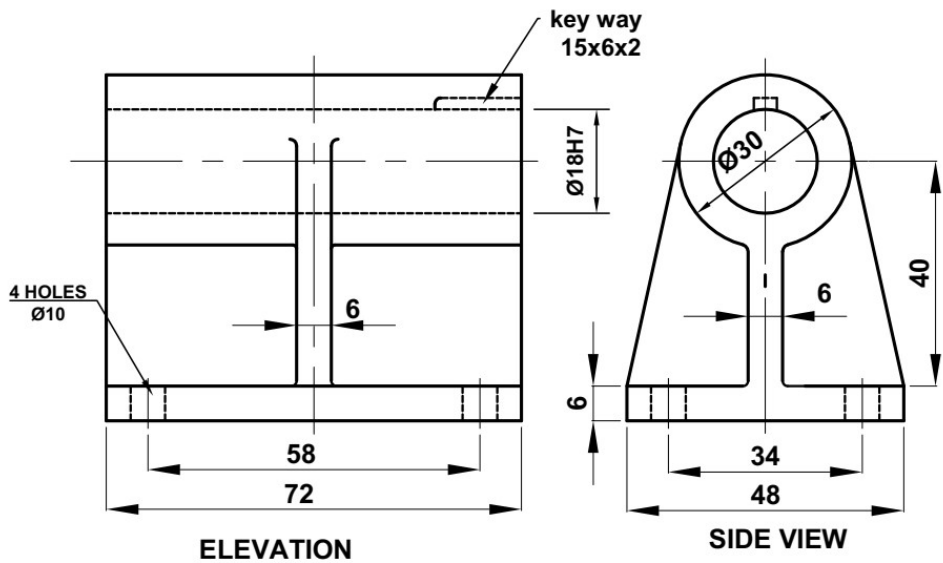
8. FLAT SCREW, ST 42, No. OFF 1.

Assume any missing dimensions:  
all unspecified radii R10

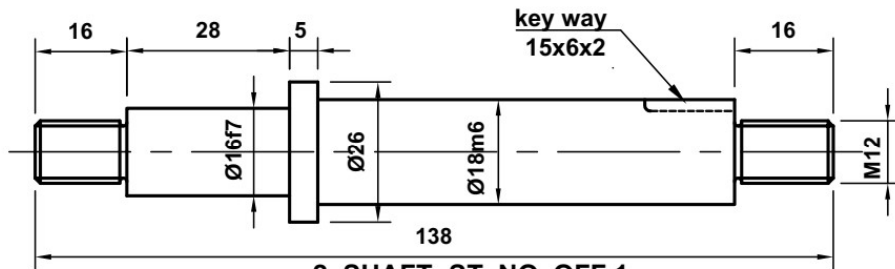
Ex. Pulley Bracket -6



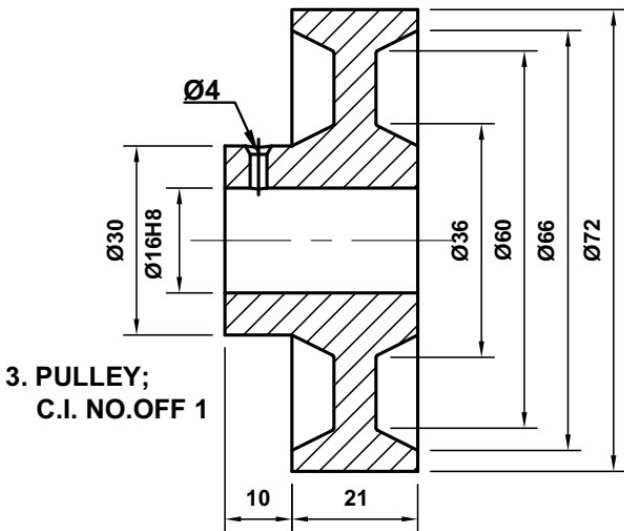
Ex. Pulley Bracket 4



1. BRACKET; C.I; NO. OFF 1

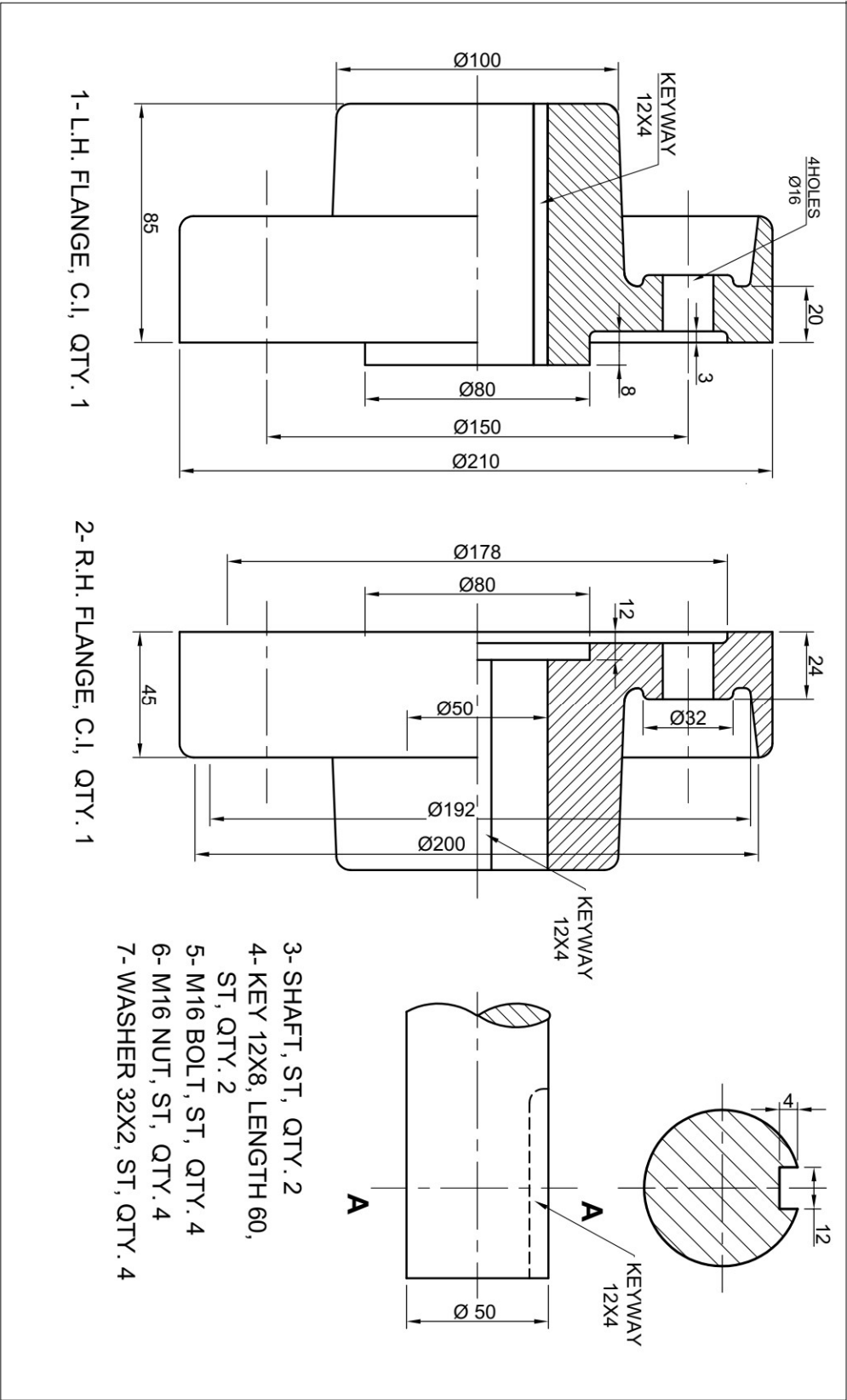


2. SHAFT; ST. NO. OFF 1



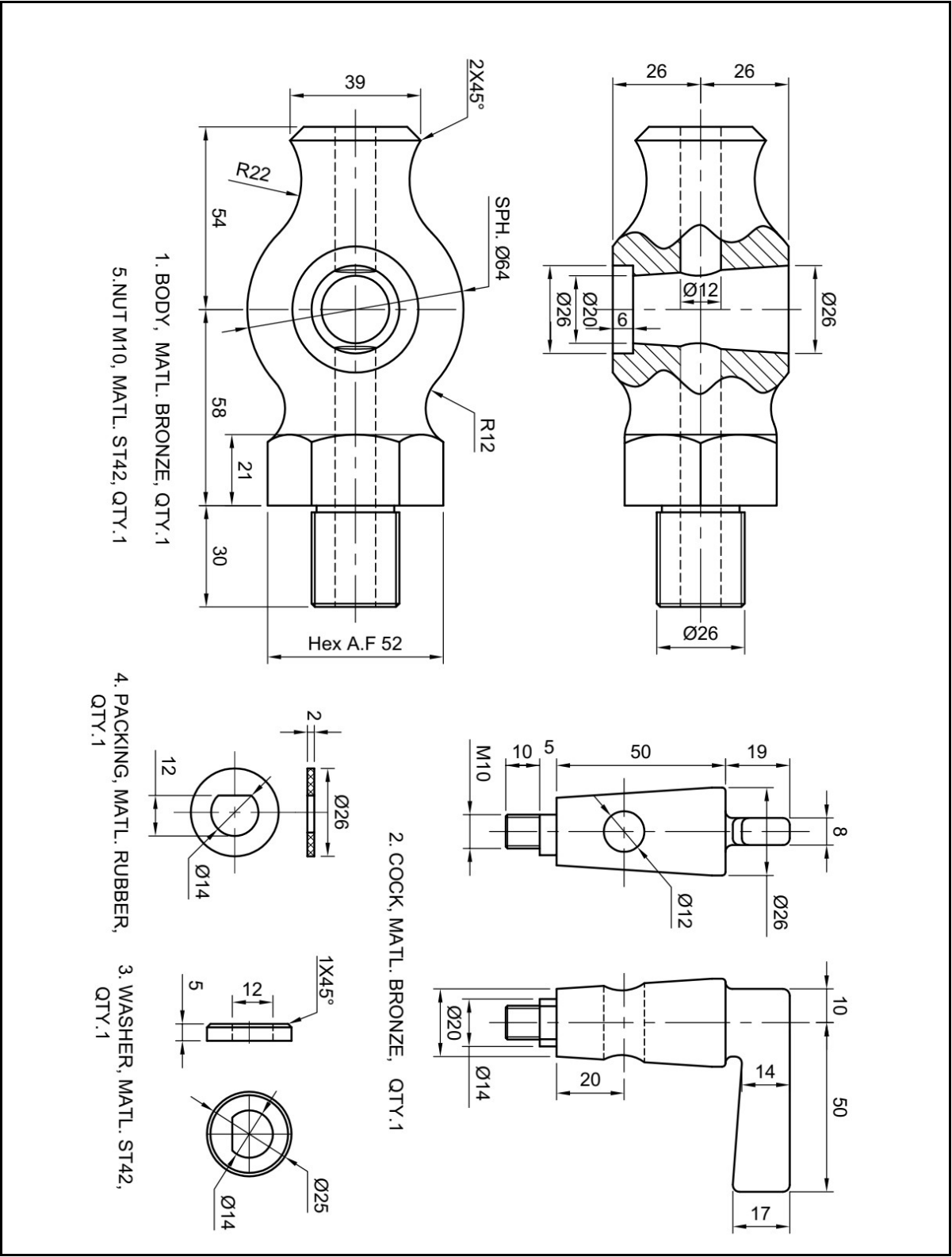
- 4. NUT M18; ST. NO. OFF 2
- 5. WASHER; ST. NO. OFF 2
- 6. FEATHER KEY 8X6X16; ST. NO. OFF 1

Ex. Rigid Coupling-1





Ex. Cock Valve



Ex. Small screw Jack

